

Only 85p

DMCE

Commodore

HORIZONS

July 1985

Play along
albums



music

Activities in
music and
the web



PROFILE

Commodore
UK boss
Nick Bessey



HARDWARE

Win a
Brother
printer

ENTOMBED
Ultimate

Classical wordprocessors
New micro languages

B E Y O N D

CHALLENGING SOFTWARE

OTHER AVAILABLE TITLES



SHADOW FIRE

SHADOW FIRE is a new action-adventure game from Beyond Software. It features a new engine and a new story. It is available on PC, Mac, and Amiga.

SHADOW FIRE

GAMES

Soft Hits

64, C64 and Vic 20 games played

Video Star

Examined — the new arcade adventures from Ultimate



Tower of Adventure

Kit's Machine takes over its ancient tower

15

18

29

CREATIVE

Music madness

Playing with CBM: learn with Challenge

Graphics aids

Videoassist and Post-44 on the scene

31

33

HARDWARE

Little Brother

Read the review that was the preview

Magic Mouse

More of a pet than a pet

Sweet talker

The latest 64 voice synthesizer



20

23

46

UTILITIES

Mind your language

After Basic — LOGO, PASCAL, COMAL...

Office aids

Superedit, Youmean and Main Office

24

36

PROGRAMMING

Checksum

A handy routine for 64 programmers

Software File

Readers' listings for the 64 and C64

30

40

REGULARS

Letter

Paragons and breakfast from you to us

News desk

Superedit's credits, more news at CBM UK

Profile

Commodore's Nick Bassy

Imprint

Latest volumes to supply off the back-log

Answer Back

Technical inquiries with Jack Cohen

Competition

Win Acornlog games and more software

7

8

34

44

54

58



Editorial

Next Month

Graphics extra

Continued from previous issues

Selko terminal

A complete guide to the new one

Plus

Games, graphics, hardware and more

THE RECENTLY ANNOUNCED Japanese terminal deals involving Superedit, the Denisy favourites, and the bluffers should give the 64 and 6500 a much needed shot in the arm and Christmas. Although the only Japanese to benefit directly will be those with the financial clout to arrange such deals, the health of the market should be boosted if the games are of the quality we've been promised.

Last Christmas more board computers were disappointed by sales, having expected a tremendous response — but what did they really have to offer? Next Christmas, we can look forward to bigger, better machines and to good, but not unknown, already, the forward looking magazines, software houses and hardware manufacturers planning far ahead in the floppy industry. We're doing our bit with our October computer show — at which, more on the news page — and we hope that previous also involved in the industry will encourage the production of responsive, affordable software, quality machines and logical ideas in the very few months.

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GHETTO BLASTER



GHETTOBLASTER

Rockin' Rodney stalks the streets of Funky Town with his GhettoBlaster. He's a messenger for Intestines Records and his job is to collect dance tapes from all the local talent! As he delivers them back to Funky Street he has to make all the locals start their stuff as his GhettoBlaster blasts out the hottest sounds around in his new dicker for the perfect beat!

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Available for the Commodore 64 from all good software retailers or mail order from the address below. RRP £19.95. Joysticks required.

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2-4 Nansen Yard, 119 Parabelle Road, London W11 2SE 01-737 8070

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► **THE NEW YORK TIMES** (1997) "The New York Times has been the most powerful force in the world for the last 100 years."

It's not my kind of music at all, from the "New Orleans" to the "New York."

There is a growing body of research that suggests that the use of technology in the classroom can enhance student learning and engagement. This research is based on the idea that technology can provide students with access to a wide range of resources and tools that can help them to learn more effectively. For example, students can use technology to access online resources, such as videos and interactive simulations, which can help them to understand complex concepts more easily. Additionally, technology can be used to create a more collaborative learning environment, where students can work together to solve problems and share their ideas. This research also suggests that technology can help to personalize learning, allowing students to learn at their own pace and in a way that is most effective for them. Overall, the research indicates that technology has the potential to significantly improve student learning and engagement in the classroom.

the 1990s, the number of people who have been infected with HIV has increased significantly. In the United States, the number of people who have been infected with HIV has increased from about 100,000 in 1980 to over 1 million in 1995. In the United Kingdom, the number of people who have been infected with HIV has increased from about 10,000 in 1980 to over 100,000 in 1995. In the United States, the number of people who have died from AIDS has increased from about 10,000 in 1980 to over 100,000 in 1995. In the United Kingdom, the number of people who have died from AIDS has increased from about 1,000 in 1980 to over 10,000 in 1995.

with 100% coverage of the network, reducing the risk of flooding by up to 90% and thus reducing



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22

BRAIN POWER

100

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2017

TELEGRAM

URGENT!



The best simulation around ... A must for budding pilots ... P.C.M.

"I would choose Doctor Soft's 843 ... documentation clear and easy ... graphics are good ... smooth ... fast talk" - Software Today

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Adventure plea

I REGULARLY subscribe to two magazines, yours and P.C.W. last year because I'm a fan of Caroline's fiction but because I find them both balanced, informative and well-written. However P.C.W. has one advantage it has an adventure feature. Such a service offered in C.H. would be of great value as it not only helps advertisers on their travels but puts us C&H users in touch with each other. So what about it? Here's one to start with. **Perseus & Andromeda**, C&H 64. The girl before, down, winged shoes, should how do I fly? P.Dave Graham Co. Durham



The C16 expanded

I AM VERY interested in writing computer games. I own a C16 but I am very disappointed about it's memory and graphics. I find the graphics unworkable — they just seem like a blur to me. Please could you tell

me if I can get an expansion pack for the C16?

If not then I am thinking of buying a different computer. Please could you also give me advice as to which one I should buy, naming what the graphics and memory are. Mr. John Stratton Bristol
MOE of Group House, Fisher's Lane, Norwalk 06850-0000 and ownership of Unit 8, Brook Winding Estate, Brookbrook Lane, Alderley 02551 330041, both make expansion packs for the C16. The machine's graphics are as good as anything on the market — a good programming book would help you to make the best of them

Praise for A&C

AS A RESULT of an advert in your magazine I purchased a "Gastable" from A & C Software. To meet my own special requirements, modifications have been made on four different packages with new disks being sent through (in the post by return).

I cannot speak too highly of the way in which my requirements have been dealt with and the patience and courtesy received. For the

modest purchase I have made from this firm I have received outstanding service. R.F. Thorne Chislehurst, Dorset

A reader restored

TODAY I received the June edition of "Commodore Horizons" from my local papershop. I would like to say that I think your magazine is great and that I have been taking your magazine for the past 28 months. However I was a little disappointed when I turned to page 6 and saw a photograph of Annaliese's Frank, Images, who I am sure that you

The picture you published of Frank Images was full of the photograph I had taken with him when I was a Commodore 64/64 owner this year. You must have got the photograph in error — as I bring on the editing room floor...or what is the best?

However jokingly on the cover of your magazine it says "Commodore Horizons has it all!" — maybe not this month for me.

However, thanks for a great magazine. P.S. I called for nearly a whole minute this evening on

reading your great magazine. Paul (C&H) Shepperton, Ohio

SECRET: FROM going on the cheap Paul — as fact you were looking away in our thing column along with Frank!



Helpful hints

HERE ARE some helpful PO4CB's and a 515 code that might prove useful to Commodore 64 owners. PO4CB 650,128 key repeat PO4CB 774 200 double hit PO4CB 775 165 double hit 515 64758 reverts language some to switching off/on

Also, if when loading you get
BEGAL
READY
too many
times try the
F10E 608 150
BURN
Robert Egan
Crawley
Sussex



Cartoon heroics

SUPERMAN, hero of comic and film, will soon be taking an expression on the Commodore 64 — and Walt Disney's characters, too.



Movie Donald Duck and Winnie the Pooh are in the air.

Superman will appear on the Microsoft/Canadian label, by arrangement with US software house First Star. Microsoft/Canadian is a new venture from EMAP, owners of Beyond Software. First Star's top hit, *Top Gun*, is already available on Intrepid, and Intrepid will be joined by *Baywatch*'s Clint Eastwood and Bill Dauterive.

The Superman game, which may feature other DC Comics characters such as *Superman* and *Napoleon*, will be produced by a system known as "coloring" which allows graphic designers to create

visually detailed graphics. Walt had arrangements for

Superman are being made.

Microsoft's first release will be *Blackford's Book* in cooperation with *Bookends* and *Quaker*. *Miss Ooze* is another release by Mike Singleton, author of the *Lords of Midnight* series.

Meanwhile, US Gold and Games have signed a deal with Walt Disney Productions to create new games based on forthcoming Disney films, underwrite the license for US software, franchise Disney characters, and retain the license for all remaining Disney characters.

Forthcoming Disney films include *Return to the Forbidden Kingdom*, the classic film *Wizard of Oz*, and *The Black Cauldron*. US Gold also has the rights to produce software

based on *The Jungle Book*.

The first three US titles which US Gold will distribute are *Midnight's Space Adventure*, *Wanna Be Punk in Hooded*, *After Wood* and *Donald Duck's Playground*. The products, marketed in the US by Sierra On-Line, are old-fashioned adventure games aimed at the younger market, and will retail in the UK for £12.95 on disk, with cassette versions to follow.



US Gold's new *BLISS* label will also be used to launch two programs based on *The Muppet Show*: *Kermit's Electronic Story Mixer* and *The Great Gonzo* are licensed from Sesame and Schwartz, and both are word games for younger ages.

Mastertronic munchies

AN UNUSUAL marketing setup between a software house and a snack food chain has resulted in a new CBM 64 game.

Cloney Cakes by Mastertronic is based on a well-established KP Sweets cartoon character. Cloney has appeared in comics, on posters and in TV advertising. Twelve million packs of Sweets will carry publicity for the game, and KP will be running an on-pack promotion offering a free model Cloney Cakes Action Bike. Mastertronic's Martin Alder commented: "Working with KP has given us access to the big multiples, and having the game published on the packs will help promote the Mastertronic game to potential purchasers."

The game will sell for £1.95, and will be available through the usual Mastertronic outlets.



including confectioners, tobacconists and newsagents as well as specialist software outlets.

Basketball bounces back

COMMODORE'S long-overdue *International Basketball* is now in the shops. The game, by Andrew Rosenberg, is a reward to his highly praised *International Soccer*. This time though the program is no copy

perpetua, with updated game graphics. There are three players on each team, and a wide range of options including one or two players, team versus difficulty levels and game rules under Olympic, NBA or NCAA.

Players can joystick control, and change colors to fit their club; one is at possession. They can dribble, shoot and pass, and keep an accurate snap pass. We'll be reviewing the game which costs £5.95 in the next issue. Contact Commodore on 0236-309119.



Like International Soccer, *International Basketball* is presented on 3 D.

Fairies dance

GRAPHICS Software has just released *Fairies* for the 64. The game, which focuses a fairy heroine searching for seven

magic flowers, was written by John Marshall. Music is done by the music "Fantasy Dance" by Gong, and includes keyboard and synths options. Talk to the horses on 0957 3640.

Horizons on show

COMMODORE'S South Coast game *Show* at the London Horizons on June 7th. The 64 and 128 has been advertised as the "official launch" of the C128, although the machine will not be in the shops before August. Plans for the show include a press briefing to demonstrate the 128 and first UK operating 300 along with a public showing of the 128, new games with meet, and a number of charity appearances and concerts. We'll be bringing you a full show report on the next issue.

Meanwhile plans are going ahead for the Commodore Horizons Show in October. At

the same venue the Horizons with Musical, the Commodore Horizons Show will be held on the Saturday 26th and Sunday 27th of October, and will cater for all of the 64, V60, C16, Plus/4, 128, and the business markets. The show will feature exhibitions from major software houses as well as hardware manufacturers, dealers and user groups.

Personal enquirers should contact Tim Collins of Commodore Marketing on 01-940 1612. There'll be more details forthcoming in future issues of *Commodore Horizons*.

Creative sparklers

ANOTHER mega corporation is going into the budget with some talent. Following last on the heels of British Telecom's Firebird, Thors EMU's Sparkler range is also in the shops.



The publishers of successful titles Macbeth and Danger Mouse will be offering a range of games at £2.98, including titles for the Vic and 64.

Tankstorm for the 64 is a seven-screen saturated action title, in which a heroic pilot must fight off combat plane pods, turbojets, drones, war-shippers and other deadly machines to test the hand of a heroical person. Chopper again for the 64, puts you against enemy fighters, bombers, balloons and tank captives as you try to destroy a heavily defended enemy base.

Fourth Dimension, for the Vic with 8K expansion, is a four-screen invaders type game in which you must destroy progressively more hostile waves of attackers. Performing titles for the 64 include Ninja and Kungu and there may be more Vic entries later on. Talk to Thors EMU on 0212 940715.

Commodore appoints marketing chief

PETE WELCH, Commodore UK Sales Manager for the last three years, has been promoted to the newly created position of UK Marketing Manager and Customer Sales.

With a responsibility will cover hardware and software on both the home and business fronts.

The appointment is part of a drive for "far closer co-ordination of Commodore's marketing and sales activity" in the words of new General Manager Nick Bussey. "Petey, an experienced senior manager with a background primarily throughout the trade, Pete Welch is the ideal choice to bring this to the level of sales and marketing activity required."

As part of the reorganisation several other new appointments have been made, including a national accounts controller, eight new accounts manager and national accounts manager. These have also been more departures — following in the wake of Marketing Manager David Conrad, the latest Commodore employee to leave is *Kit Porter*, formerly Software Products Marketing manager. A Commodore spokesman commented "I believe *Kit's* gone to another software company — but there was, as they say, no economy involved in his departure."



Anirog takes off

ANIROG's latest game is *Jump Jet*, which will be available in versions for the 64, expanded Vic and C16.

Jump Jet is a complex Harrier flight simulator incorporating a number of options including hovering and landing practice, radar and target filter interception and an air combat with enemy aircraft.

Author Vaughan Dow, a Harrier pilot himself, is the author of *Flight Path 597* to Anirog, and spent a year developing *Jump Jet*. The 64 version of the game will cost £9.95, and the disk version £11.95. The game incorporates software speech created using ANIROG's Voice Master hardware.



More details on the Vic and C16 versions will be released soon. For more details contact Anirog, Unit 10, Victoria Industrial Park, Victoria Road, Darford, Kent, OX11-6JH.

Automatic Arabic

JCL SOFTWARE has produced two new products for Arabic users of the 64 and C16. The ZAN 64 catalogue contains the 64 and a full Arabic / English bilingual system basic programs can be entered in other languages, and converted at the touch of a key. Price can has been made for presentation in other languages, and the two languages can be com-

bined in one program if required.

JCL's other product is an Arabic wordprocessor, which features full context analysis, automatically displaying the correct shape for each character when it occurs at the start or end of a word, as well as combining the mouse or right/left mode. Output is possible via a CBM 1301 or MPS 804/2 printer, although Epson 82040 and 810 also supported.

C16 versions are under development, and a bilingual database system is on the way too.



For details of price and availability contact JCL Software at 1 Bedford Road, Southeyr nagh, Telfordshire, Welfs Kent, OX11-7JH.

Tymac connects up CBM

TYMAC UK, producers of the "Follows" software series, is now moving into the hardware market. The US parent company Tymac Computers Corp, Irvine, has produced an eight port system interface for the 64, Vic 20, C16 and Plus/4. The Connectee is a parallel device which plugs into the serial socket, and translates Commodore ASCII information into conventional form.

For more details contact Tymac UK, Unit 76 Standard Way, Garsfield Industrial Park, Tipton Road, Birmingham, B11-1P.

Racing cockroach

THE INCREDIBLY NAMED Cockroach Software has come up with a series designed to improve the usual lack speed of the 64's disk drive.

Turbo 64 was developed in Australia, and allows you to produce windows of your disk software with fast loading built in. Clever speed improvements can be up to a factor of five with huge savings for instant loading in ten seconds, and the package comes with a number of labels which allow you to identify your Turbo loaded disks.

Each Turbo disk can store several programs, and on loading you are presented with a menu from which you select the program you wish to load.

The program works by modifying the Commodore DOS and by removing the "double-checking" feature in the load routine — so your disk drive has to be in good condition.

For more details contact Cockroach Software, 20 The Couriers, Marlow, Newport, Gwent NP13 4ND, 0493 480334.



007

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COMMODORE 64



Elite—the ultimate, award-winning space challenge

Once the privilege of BBC and Electron owners, Elite now takes a giant leap forward—onto the COMMODORE 64. (There'll be versions for the 48K Spectrum and Amstrad soon)

OUT IN DEEP SPACE, THESE REVIEWERS FACED THEIR TOUGHEST TEST.

Already tested by the intrepid explorers of the Commodore press, here—breathlessly—are just a few words from their advance battle reports:

"The Final Frontier?"

(Mega Game, Your 64, June 1985).

"My favourite... as absorbing and challenging as the original."

(Commodore Horizons, June 1985).

"To explain every element of Elite would take a book... you'll run out of energy long before Elite runs out of things to show you."

(Commodore Computing International, June 1985).

"A brilliant game of blasting and trading... truly a mega-game... the game of a lifetime."

(Gold Medal Award, Zap! 64, May 1985).



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فان
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Helicopter

A rather cheap and not without effort from Mandrake, this title is a decent set-up of light-gun proportions.

Shots start powerfully with a landing area which quickly, as the best I've not seen, showing the appropriate weapon helicopter in flight. The game itself starts off slowly but rapidly becomes a real painful matter if you play at the higher difficulty levels. Your mission should you

choose to accept it is to destroy supplies from on, side of the landscape, which is where big targets appear to



appear. You can shoot down your base. To do this you must guide your chopper through hails of fire from enemy tanks and boats while watching out for volleys from your anti-air

charge. On landing a supply pad you must land, push it up and again dragging it on the supply area. This leads to some ugly bugs being assembled close by, but well over there finished you move on to a more complicated version with more enemies.

There is no level of difficulty, just a key opens good sound effects and controls with two moving exposures. Absolutely no safety whatsoever, I'm glad to say — a sort of Defense variant in which the tanks burst, tanks and fighters

come thick and fast and you just have to shoot the hell out of them.

Nothing here overlooked here — there's even a time bonus, a little longer than you don't expect when you pay £1.99 and some shots on the main so you know exactly what you're getting. That is up.

Program: Shyco 64
Supplier: Mandrake
Price: £1.99

Graphics: ★★★★★
Sound: ★★★★★
Control: ★★★★★

Grandiose hotel

The follow up to the under rated Zen Sky Run is another "more" arcade adventure. The characters are depicted in a window at the top of the screen and the hero's movement is controlled by a joystick. Commands of the real kind — go, drop, etc. — are on the screen, and on-screen text, and on-screen text, and on-screen text, and on-screen text.

and the computer responds appropriately.

The hero is an integral up who must recover stolen documents from the Grand Hotel before escaping by helicopter at midnight. The graphics are in three dimensions as Maffeiware House makes use — not compared with Ultimate's Commodore games. For money — but they are quite successful and clear. The program requires only 24 bytes to store a good deal of "fun" and is a clear, boring

around that the format of the game is primitive and I'd be surprised if it didn't become more popular as time goes on.



and, in addition, the party elements of adventure with the movement of the game. It's a pity that the

program isn't written with more care — the room descriptions are very simple and apart from the endless menu (possibly like Keith Emerson's company — "Pope" "Guns" there are a lot of ways in which Grandiose Hotel could have been made altogether more good.

Program: Grandiose 64
Supplier: Maffeiware House
Price: £7.95

Graphics: ★★★★★
Sound: ★★★★★
Control: ★★★★★

Heavy man

Clash of Dams is the set — an arcade adventure set in the lands of dams, featuring a bold traveller from the path of the sub continent.

Each of the 64 screens is a room, and the road you follow is shown on a chess board map. Your movement is controlled by a joystick, and the hero is faced to fight off bats and demons, but can only fire from some of the crates.

As with most 1983 adventures, there are useful objects which can be picked up and added to your inventory.



then enabled and used at the appropriate time. There's also a hit force indicator, current

score, status, compass and command menu.

What's more, something is

the design of the rooms — not particularly high resolution, but some quite good. But the screen refresh rate from you looking quite good.

A good effort, and a real sign of more good work needed, that Virgin has managed to use one of the more interesting software houses doing so than ever before, rather than on bought-in support.

Program: Clash of Dams, 64
Supplier: Virgin
Price: £7.95

Graphics: ★★★★★
Sound: ★★★★★
Control: ★★★★★

Eight in one

New Palace is a 1983 Commodore 64 platform machine effort in which there are eight levels with no extra in each. Each level is loaded with the computer after the first has been completed so as to offer you're getting eight Vic games in the price of one. It's certainly an impressive volume



As you tap under platform control from platform to platform, the main world

around giving all platform games which you must avoid. You are armed with a laser gun, but this doesn't kill them — you have to drop to trigger on another part of the screen. You automatically fire in the direction the joystick is pointing, and the height of your jumps is controlled by the height of time you keep the fire button pressed down.

You only aim to jump from the screen before you

energy runs out, so there's not much variety in it. But New Palace should keep a few Vic owners satisfied, and compare them that some software houses at least will respond to the demand for new games.

Program: New Palace Vs. 28
Supplier: Bubble Box
Price: £5.95

Graphics: ★★★★★
Sound: ★★★★★
Control: ★★★★★

SOFT HITS

Scramble, scramble

Flight simulators are a popular field and to make a variety of very new efforts requires your own set of original ideas. Microsoft's idea is to use the famous wartime Spitfire fighter as the subject of the simulation.

The cockpit simulation is expertly detailed with the full range of controls available

glide around the map with a joystick and you are, the manual claims, "so absorbed in the action... that you forget the joystick exists." However, we find the actual play is not as absorbing as the manual claims. The joystick controls are very poor indeed on the computer, and the game is very poor indeed in the actual play. It is not as absorbing as the manual claims.

The actual combat sequences are quite good, with large, well-placed and clear all possible. The sound of engines

drills through the your headset is quite an exciting and is used the most often.



whining but is trying to land — obviously you'll crash the first time you try to land.

to your glances, crash is a higher one.

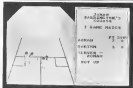
Full save options and a close position complete the package which offers probably the best chance you'll get of becoming a Group Captain. VLS DSD 100% in the safety of your own living room.

Program: Spitfire 40 64
Supplier: Microsoft
Price: £12.95 disc, £14.95 disk
Graphics: ★★★★★
Sound: ★★★★★
Gameplay: ★★★★★

Urggfff!

Apart from being things I thought all the possible scenarios sports from under a year long playing to Baller ball had been covered one computer game. Of course I'd forgotten the big premier league football New Generation Sports. This version is very good, with the two players in one versus the computer, represented by International Soccer like speed, scoring around a realistic squad score.

The program automatically selects formation or backhand shots for you when taking the ball to all you have to worry about is the timing. The ball is



very smoothly animated and makes a pleasure CHUNG when it hits the wall, or a FING if it hits the bar, signifying a goal shot.

For those of you unfamiliar with the game the manual

gives a good explanation of the mechanics of being both teams.

There is a selection of difficulty levels and very different keys, plus an excellent attempt at speech

software called by professional, which allow the famous coach Barrington to instruct the team.

On the previous copy the first time about the more worked film, but on this version game it had slowed to half speed, as if you really had captured himself, and still not more like "murmurs" but "live" than "one live".

It's — someone should call NewGen that "yellow" is a speech with two 1's, not three. But who else I so much as more details. A problem, and worth looking out for.

Program: New Generation Sports 64
Supplier: New Generation Sports
Price: £12.95
Graphics: ★★★★★
Sound: ★★★★★
Gameplay: ★★★★★

ET go home

This one, an excellent idea and could have been a great game if the graphics had been a bit, more so, suggested.

Blagger here of Ali's new two terrible games is off to Hollywood to find the only copy of British Sportsman's latest movie from his computer

from the first of his new two terrible games.

The film series are represented in a 3D perspective view similar to that of *Ali* and *Rocky* of *Super* which has been very well done. Ali Blagger moves around the scrolling screen as he has in several other games and various film stars while looking for the alien that will help him to defeat them.

There are 12 film stars to represent before Blagger —

finds his way to the 13th room where the film is kept.

Blagger Goes To Hollywood



is OK but nothing more — it's a good idea which hasn't been as heavily thought through

that you see. A bonus the package includes an order form which enables you to send off for a free Blagger T-shirt and badge, so even if you aren't that keen with the game you'll have something for your money.

Program: Blagger Goes To Hollywood 64
Supplier: Ali Blagger
Price: £12.95
Graphics: ★★★★★
Sound: ★★★★★
Gameplay: ★★★★★

Aardvark

One again we return to the famous world of Tharg searching for the underdog species of the world. This time the game is presented from the most "working" only by the excellent Animations of George. It's really a good idea and is a good idea.

Attila's effort features small quality figures rather than the large detailed figures



of *Attila*, but the overall effect is to give a much better idea of the size of the 3D per-

spective backgrounds.

There are 12 dungeons to get through, with 129 different rooms, and features as diverse as random spiders, ghosts, and fire to avoid things.

Each dungeon presents a different challenge as you progress the main tunnel, platform and corridor, and the rooms are good fun in themselves — for instance *The Eternal Flame*, *The Pit*, *Colossal*, and *The Sky*

Crypt, which sounds like *South* from an old *Wednesday*.

Really good fun to play with but the excitement might be high.

Program: Search of Imper 64
Supplier: Animations
Price: £12.95 disc, £14.95 disk
Graphics: ★★★★★
Sound: ★★★★★
Gameplay: ★★★★★

Sir Arthur Penzance (SAP) to his friends was one of those men who could never read a good story and a lot of excitement, so when somebody told him about the legend of Christ, he was unable to contain his enthusiasm and set off immediately to see what he could discover.

There he came to be in a chamber deep in the bowels of the earth. The walls were covered in hieroglyphics. He moved to take a closer look and not if he could make some sense of the ancient drawings. As he did so, the fluorescent beneath his feet seemed to give a little and two huge monsters slid across the only apparent exit, blocking it completely. He stood there, wondering at the legend about him, the god of Christ, came your way. He searched the room and soon noticed something in the corner that looked hopeful. Sure enough, half-way up the wall was his eye. "If this is a clue to the exit I'll better jump to it and find the answer before it set up all this for in here."

For an experienced adventurer like Sir A., the words of the way out didn't stir terror for very long, and he soon had the monster sliding back to their previous position, either side of the now open

walls of very beautiful Egyptian hieroglyphs. There's only one way to make the right choice, he thought. "As when I always do on these occasions, I am, I am!" He did so and set off in search of the way out. Sir Arthur was rather perturbed by the fact that he had nothing to ward off the multitude of enormous, man-eaters and Guardian Spikes that charged at attacking him at every opportunity, and he hoped he would find something along the way that would help keep the beasts at bay.

A doorway appeared. He entered and almost at once had to jump over a couple of boulders that came sliding down the way to towards him. This it was a door at the back of the room alongside another eye symbol. "I hope this is going to be worth all the trouble," he thought as he made a dash for the center, avoiding more rocks to be hit.

Now that a more like it, he said to himself there was no one else to say it. SAP, knowing the way from it a hiding place, "someone must have known it was coming. He left the chamber as quickly as he could, glad that he had found a weapon in the case of which he was regret, but also feeling a little weak from the heat and sleep of the



ENTOMBED

Descend into the Strygian depths of the Egyptian catacombs in Ultrate's
greatest puzzler. Only Whitcombe acts as torch-bearer

arduous. "I'm glad to be out of there," he thought, little knowing what lay in store for him just around the corner. He moved in shadow a last glance at the room he had left. It wasn't there! "Let's hope I don't need to go back that way," he mused.

One here was unable to decide which way to go along the corridor. Both directions looked alike, just long passages lined by

weepy-drawled but parolled the corridor.

He came across a room in the wall and went over to have a closer look. SAP had hoped that he might find a secret passage but it was not to be. Just then, he noticed a large black bird flying along in his direction carrying something in one of its claws — a sword. Aahh, treasure. As the bird passed by he leapt and made a grab for it. It disappeared! Surprised, he felt a new lease of life surge through his body. To be decided to continue on down the corridor in search of a way out.

After waiting out a few dead-ends (more than a few actually) he came across another doorway. He went in. Two boulders

this time, only an obelisk, a statue and the most enormous beryl you could imagine guarding the way on the far side of the chamber. In debt, I look as all friendly but, on the other hand, as there is did not seem to want to chase our hero away. Sir Arthur nudged the room carefully. There were the usual markings on all the walls and on the obelisk and there was a shelf high up on one wall that had something perched on it. He tried to dislodge whatever it was, but it stubbornly refused to leave its resting place.

He kept over the beryl, collecting only a small tray on the way, and found himself in a corridor (oh, yes, there's more the same beautiful, painted designs on the walls,



For the moment, whip against the crystal creature



A scene of the mission



GAME: Entombed
MICRO: CBM 64
PRICE: £9.95
SUPPLIER: Ultimate

but this time in different options. In some rooms, such as there it's difficult to know which way to go so he left the door open, at least, to the rest of a room. SAP, as usual, was off to the opposite direction leaving it as he had made the right choice. Another door, another room. He stroked towards the far side where he had scored a flammable sight, but almost immediately found him self transported back to the doorway by a Guardian Spirit who seemed to appear from just disappear most one of the Seraphim. Fortunately the memory like, enemies seemed more too bright and too fast, always run for being in the right place at the right time. was soon able to turn thirty about, without any more special reverence. It didn't do him any good though, as he discovered another new which gave frankly surprised him out a little. He returned to the corridor feeling almost after his enemies had noticed that the enemy battles would leave him alone for a while, but they didn't like proceed on, putting his feet into forward and was soon rewarded with another opening.

"Things can only get better," he thought, as he stepped aside as he confronted by the gate through the castle. Heated enemies. They weren't afraid of him in his way through and he also felt their anger at his success. Despite his loss SAP rose to the occasion and made a dash for the center of the chamber where a small chest was resting under the watchful eye of the slithering guardians. Inside was a



And so the journey he took to the edge

due to the location of the magic levels, which didn't seem to make much sense at the time, but 'perhaps at will later', he thought.

He began to get a picture of the layout of the labyrinth, fixed as he moved and so was soon able to find the only passage that the file was to be made, yet been along. He was right, and was forward to discover another chamber of statues, the same wall paintings and as met on the far side. There was, of course, something blocking the way. In one corner of the room he got cold an subject that required closer inspection. He was unable to make out what it was. He couldn't open it, although it seemed to have some sort of catch on it, but could be moved in, despite trying all kinds of probes that he had known was often necessary in these circumstances. Perhaps it could play a two card, he mused, remembering the table

on the castle gate. He shuddered at the thought of having to go into the "superstition" again, but go there to meet and every where else that he had been for that matter. The Statues felt sure that the only way was from the room, just as he was sure that should he get out, there would be many more dangers to stare for him before he finally saw the light of day after injury. But he also knew that he had to keep something along the way. The Guardian Spirit kept away from the alcove, were they afraid of something? And what was that on the shelf?

If only the statues could talk! One startled form grunted his teeth, went back to square one and prepared to do battle, yet again, with all the powers that had dropped his path right from the very start.

"Ah ha!" he exclaimed, now if



It is guardians of the great!



The death is not easy



Trapped on the castle gate with a crystal clear to capture you further

It's not heavy – it's a Brother

COMMERCIAL users are always looking for a different printer or printer. The HP8-C has many and does not include and a little to use against for many reasons. Here are the other Commodore printers on the market, or better yet, look for them.

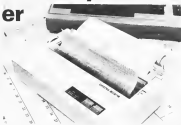
One alternative is to go for a non-Commodore printer such as an Epson, Jet or Laser. The problem here is that the final price is higher and the range of features provided – such as sheet feed, auto document, bidirectional printing and so on – are available for the use of the machine, and possibly operating, at a higher price to be taken into account.

The Brother HB-C is an attempt to overcome some of these problems, and to offer an affordable printer system without complex and a hardware or software. The HB-C is directly compatible with the 64 Kc 20 C16 and Plus/4, having the same serial output as that found on the MP8-B01 for instance. It prints on special thermal paper, or on ordinary paper if you used a ribbon cartridge.

The unit weighs 1.6 kg and the dimensions are 180x110x110 mm. This means that the HB-C will fit easily on any desktop surface and takes up about half the space of a conventional printer. It operates the printer in almost silent.

Power is supplied by four batteries or a 6V power adaptor. The special thermal paper used by the printer is supplied on a roll which has once one final area assembled to protect from the back of the device. Connect up sounds on and you're ready to go.

The manual is very thick but that of the MP8-B01. There is no other HP8-C alternative.



which control the working hours, line pitch and so on, and controls on the front for line feed and on-line/off-line operation. Everything else is software controlled, and is fully replaced in the manual.

After a review on ASCII under the manual, users the use of files and graphical contents. Secondary addresses are entered and along with page and control modes which allow the use of mirrored characters, double width characters and user defined characters. There are several useful example programs in the manual, and technical details on the machine's construction and capacity for those who are interested.

The total is a fast page printing rate of 1/3 second. Maximum page width is 80 columns on the 44 width roll of sheet paper, and on a page of 100 x 100 mm.

On the whole the HB-C is a compact, portable, of course machine with a good deal of economy.

Thermal paper printers are obviously not as good as present using a ribbon cartridge and the cartridges can only be used once operating about 10,000 words and are fairly expensive to replace. Obviously the machine isn't suitable for heavy-duty business work, but for normal program listing or simple correspondence it is an attractive alternative to other more expensive devices. ■

Product: Brother HB-C, thermal printer
Supplier: Jones & Brothers, Staple St., Guild Bridge, Andoverham, Manchester, M6 6 6 6 6
Price: £154 + V.A.T.

This is your chance to carry away a Commodore-compatible Brother HP8-C thermal printer

- | | | |
|---|---|---|
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| ★ Lightweight and portable — only 1.6 kilograms ★ | ★ Small enough to fit on the most cluttered desk ★ | ★ Power from batteries or mains adaptor for freedom of use ★ |

AFTER you've read the review of the Brother HB-C printer, we're sure you'll all want to get your hands on one — and this is your chance to do it for free. To win the printer courtesy of Jones & Brothers of Manchester, just put in order of importance the features of the machine listed above. For instance, if you said:

"Lightweight and portable" is most important, then 1, 6 and so on. This complete order-by-order is an apt, original and unique manner in which words or letters — I want to have a little Brother

before —

Put your entry with your name and address on a POSTCARD and send it to: Brother Canada, Commodore Electronics, 12/13 Leek Newport Street, London WC2H 7PP, to arrive by the last working day of July. The winner will be announced in the September issue. Normal rules apply.

The winners of the New Commodore contest in the May issue are J. E. Wainwright, whose prize is a complete facilities at the Farnham Academy, Farnham, Surrey, and Terry, resident at, possibly

opens of Shire the Rapids or Cliff Hanger are T. Wainwright, T. Wainwright, M. Gwynne, C. L. Ward, Wainwright, J. Mitchell, Bellingham, A. Wood, Leeds, N. White, G. Yarnsworth, D. Gumble, Dymallying, J. M. Smith, S. Jones, M. Gifford, Rochester, A. Norton, Roper, P. D. Maitre, Portsmouth, T. Dutton, Wainwright, E. Wainwright, Bellingham, D. J. Roberts, Strathmore, M. McKinnon, Dymallying, P. D. Lynton, Farnham, S. J. G. Harris, Birmingham, M. Saiton, Tarnworth, D. Pines, Bedford, P. Mains, Warr.

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Meeting the mouse

John Cochrane looks at SMC's Magic Mouse and finds himself converted to WIMP — and getting some help with his sports

SIX MONTHS ago I knew exactly nothing about mice. Sure I'd read the reviews of Apple mice and seen some of the fuss as other manufacturers rushed to produce their own along with some dubious-looking software for producing something called windows. So what? A mouse conceptually seemed so easy to be nothing much more than a new fancy kind of joystick: the window software an interesting but rather tedious way of fiddling up the screen. I was wrong and I now regard WIMP's (Windows, Icons, and Mouse) approach as a completely different light.

A good mouse-based system is much easier to set than a conventional keyboard-only one. It seems that we humans do not as well adjust to the machine-based way as we sometimes assume. We talk performance when faced with pictures that when it goes to interpret words. I suppose it's a little like the difference between looking at a map and needing a verbal description of a route: coming, they both have their uses but the map tends to be much more useful if you are not to go home.

Mouse systems are much like conventional menu-driven software. You start off with something simple and select some until you get exactly where you want to be. As you move the mouse the movement is detected by the computer and translated on the screen where a pointer (an arrow or sometimes a small hand) moves with the mouse. Move the mouse forwards on your desk and the pointer moves up on the screen. The mouse also has buttons on its front, just where your fingers naturally rest. Move the pointer on to, say, a picture of a floppy disk and press one of the buttons and the system will immediately list the contents of the disk.



The tiny stand reveals that a one button is a lot quicker than using the keyboard.

There is much more to a good mouse system of course, but you get the idea. Mice are quick and easy to use. The icon system provides those little pictures of disks or packet calculations recognized by the system as components of a menu, making life easy. You can perform much more information on a screen of icons than trying to use words. Windows are used to produce rapid changes in the screen display, for example to give flip-down menus to a particular icon entry on a screen menu. For example, select the calculator icon and a working image of a hand-held calculator will flip onto the screen to be cancelled again as soon as you get fed up with it.

Iconography

But let's get on with the mouse. The Magic Mouse is a package for the C64 which gives you not just the mouse itself and the vital software to run the thing with your own software but also an art package, a spray designer and an icon for user-defined program designer. Of these I found the spray and icon designers to be the most useful. It is normally a pain in the neck to try and set up screens, especially with the multi-colour set we have to contend with. Spray designing using a mouse is much easier, a sight for sore eyes. A large screen image gives you your chosen point positions, which you can alter one by one, while a small icon window shows the full colour screen as it would appear when used.

A high resolution art package should be just what the doctor ordered for the C64. This one allows you to create 16 bit mapped pictures which can be used in your own programs or just displayed. Resolution is fixed at 300 pixels. Magic Mouse gives you most of the usual options, such as line thickness and color, color is full resolution, and so on: but these options are



held on a separate screen. It has the picture screen. A screen display option for Commodore and Commodore printers is included and there are tape and disk save options. The software gives you a full screen editors and even some clever software to match the low-resolution colours used by the C64 to the high resolution picture that you are working on.

The mouse itself is rather large and I found it too comfortable to use than others. The mouse buttons though have a good pressure feel, and the lead which plugs into joystick port two is nice and long although I was unhappy to plug it into the thing on my already cluttered desk!

SMC's Magic Mouse is the first work product for the 64 although there are others on the way including one from Commodore themselves. Use of the mouse itself and the way that the software works must be left to personal preference: so make sure that you have a go with any system you're interested in before you buy. ■

Software: Magic Mouse
 Mouse, Commodore 64
 Price: £29.95
 Supplier: SMC Supplies, 11 Phoenix
 Lane, Gorse North Road, Broom
 Price: 01 447 12811

Lingo bingo

Don't feel that your 64 is restricted to operating in Basic — it can learn new languages more easily than you can! Tony Harrison-Smith brushes up on his COMAL, FORTH, ADA, LOGO and BASIC.

MANY IN LONDON studying the intricacies of Pinyin would like to visit a new language school but not go to a low-level language school as machine code is the only one I think it's necessary to have. I think I'll visit Pinyin and Central Park. Pinyin, Pinyin, Pinyin and Central Park are all compiled languages, which means that they convert the program which you enter to a sort of machine code that allows the program to run a lot faster. The trouble was only one a few years ago that the language, but it should be, is a sign to show the machine code is correct.



Forté is the most accurate of the languages reviewed in this article. The language was developed by Charles Moore in the early 1960s as a language for computer-aided instruction.

The treatment of fish differs from all other, thereby being much simpler, less expensive and less time consuming. The treatment of fish is done in a special plant. The use of all products, swimming suits, etc. is also done in a special plant. The use of all products, swimming suits, etc. is also done in a special plant.

powerful language as the programmer will
 make it so for requirements. A lot of video
 games have been written in Fortran as a
 very fast language.

The program used for the review month, C&A Fourth, by McGraw-Hill House Publishers. This is a version of the standard For Fourth with added commands. The program is as well most packages, runs on a personal system to increase the memory capacity of the Commodore 64. The main memory is held on disk with the computer sitting on the information as required, there is called Run Disk. For tape was a version of memory is not able to ensure a disk drive.

The most difficult art to master when working with fourth is the art of using the stick and review Polish notation. This means that to add two numbers, instead of entering $3+4$ and expecting the answer 9, you have to enter $3\ 4 +$ with the operator being entered last. Once you have entered the numbers in the memory you several times, you will not be the boss of a !

All the standard features of these "improved" languages are included in the package including all basic file manipulation with `open` or `close` commands, `write` for writing between and to local and remote extended background colors, the `res` graph or and `res` graph, `l` modes, all the `write` command.

There is only a plot command for 2D graphics, but contours for 3D plots should be easy enough to write.

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Page 4 of 4

With this package, which messages are only given as a number, and the meaning of the error has to be looked up: at least didn't you recognize the small stars. If the manual is not a manual only, a preference manual, so it would suggest that if you find this package, you buy a good one yourself. Book me. Forth I found that Forth was more difficult to learn, and was different technology, not other languages, but it is very powerful and fast.



When computers were a kind of magic, machine code programming (what you write as assembly language) was a language that would allow you to write your programs in a high-level format. For example Pascal or Basic, and then convert it to assembly for you. This language should then allow the machine code program to be loaded directly into memory and be controlled by the executing Basic, in the computer. There, such a program is called *Ada*, and the first implementation is published by Tenth Technologies.

Aids were written for use on mainframe computers, originally to write the programs for controlling American guided missiles. The language is named after the designer.



are all for individual regressors including `costit` and `revenue`. The other addressal commands read the private and public parts. It is also, but a little, in connection with the

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Y our 64 commands are only available on the Commodore Plus/4 package and they cover everything available and more controls.

Inside the package are very good, well illustrated manuals which will allow you to start using Pascal without the need to purchase any other books, though further reading would be advisable to get the full potential of the language.

▲ COMAL

Comal is a language which combines the structure of Pascal with the user friendliness of Basic. The Comprehensive Compendium of Comal edition 3.0 also has Logo commands integrated as it for graphics control. The compendium mentions the Commodore 64 is 128k of memory with 60k of RAM. Although Comal is a compiled language it uses a runtime compiler which means that the program is compiled in memory just before it is run. This method gives the program speed without the overhead load and run a complete program when editing.

On the general programming side, there are several useful editing features such as line line numbering and renumbering a complete program. A useful editing technique is the use of the edit and line commands. Edit will display the program over the screen in the normal manner, but the command line will display the program with the loops and procedures highlighted to allow the ease of starting a program. When entering a program the syntax of each line is checked as it is entered. Errors are displayed and corrected before each line is entered into the program. This method of checking removes most of the silly errors which creep in whilst programming. Programs and routines can also be merged using the link/link commands.

In Comal, variable names can be up to 75 characters long which allows, as in Pascal,

meaningful names to be used. One distinction is that a statement and a naming variable cannot have the same name, i.e. name and name cannot appear in the same program. Loops are covered in Comal by For/Next, repeat until, repeat until, and do/until as in Pascal.

Procedures are used in Comal the same way as they are in Pascal, they are similar to Basic subroutines, except that they have two major improvement areas. The first is that they are called by name not by line number. This allows them to be placed or moved anywhere in the program. Comal differs from Pascal in that the procedures may be anywhere in the program, even nested in the main program block. The other difference to subroutines is that variables in the procedure need not affect any variable in the main program. This is achieved by making a procedure closed.

Graphics are covered by Logo type commands forward, left and so on. Logo commands can be entered directly from outside a program so that graphics can be drawn by the program elsewhere of the family without having to leave the program. This is covered by normal graphics commands such as pen, paper, show, etc. The graphics screen can be switched on or off by the "toggle" command. In Comal this command does not lose the contents of the screen or graphics screen so that a program can switch between them at will.

Sound commands in Logo keywords to control (musical) notes and so on. A very useful book about Comal is the Comal Handbook by Len Louch. This book, published by Premier Hall is the Comal bible with details of all the Comal commands in an easy to read style and offers many useful examples for use in programming.

As this article has shown, there are several languages for the Commodore 64 which will make the use of its capabilities a lot easier. Forth and Ada are very low abstract assembly type languages, and Logo is a very good introduction to programming for younger people. Pascal is a far more advanced language which is used in a lot of higher education. Comal is a combination of Pascal and Logo with the user friendliness of Basic.

Although Basic is found to remain the most popular language for the home programmer, it's worth examining the alternatives — the more languages you speak, the better you can communicate with your 64.

- ▲ **FORTH** Melbourne House, Castle Yard House, Castle Yard, Barchard, TW16 6TG, 01-842 0000
- ▲ **ADA** First Publishing, Unit 20B, Blenheim Road, Hemel Hempstead, Herts, ST15T-5344
- ▲ **LOGO** Commodore, 1 Harnett Road, Wotton North Industrial Estate, Carby, Northants, NN16-20222
- ▲ **PASCAL** First Publishing (as above), Oxford Computer Systems, Harnett Road, Woodstock, Oxford, OX11-01200
- ▲ **COMAL** Commodore, 1 Harnett Road, Wotton North Industrial Estate, Carby, Northants, NN16-20222



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TOWER OF ADVENTURE

In the land of youth

Fighting off the Grommies and exploring Te Anau. Ken Matthews teaches us the adventure's sacred and heavenly secrets.

BRIAN HARTNETH's name has long been known in movie-advancement circles as the owner of the Channel 4 Capital Financial arm of MyNetworks Advancement. Brian has recently joined the team at Advancement International and now has a very full workload overseeing "Good Advertisers' investments in other markets as well as working his address to the MyNetworks Advancement which are now being marketed by Advancement International. A/TI future plans, written by Brian, is featured this month — Channel 4 — the Advancement.



Recent writers have been kinder than the book/film critics that have seemed to be half-hearted attempts to stick to the financial records of the original production. Happily, that is not true of Cavellana — it lives up to all of the modest and more of the low-key, obscure music that it

The enchanting little game is remarkable for two main features — the very high quality graphics and the use of a metaphor as some of the controls.

The plot starts out in the Toluca zone, with the task of ending Kuapala Falls off the Channel, which threatens to swamp it. These mill-hole cycles have been known since little Cuapala, Toluca, who you have allowed to get out, and led after another

The game itself is not large or particularly difficult, but provides plenty of interesting and amusing things to do, such as to various kinds of kidnapping. Given the amount of the business, there are graphics which show you attention to detail and similar scenes, as well as the atmosphere of the game. Getting objects or performing some tasks often provides an interesting element in the real-time action.

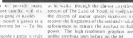
the player is much better suited to "taking part. The emphasis is on some serious in sport funny as expressed in the Mashed Cream. It's well for the young people who love the Mashed Cream."

Circulate in a well
written, well pre-
sented and very
improbable game-
plan that shows
enough in the film
to appear on Fox.

The second of the month is given as a translation of the Epiphany lit — *The Wise Men*.

The concept of Gensocle's game is truly original, featuring a quest in the Celtic "Cyber World" where the quest of the hero Cullachlan must journey in search of the fragments of the Seal of Cullam and, having gathered them, to enter the fragments and achieve the seal to find the Great Enemy in his mountain lair.

The programming of this adventure is nothing short of brilliant: as you will see as you explore the landscape, look for an element



As he walks through the almost deserted streets of The Land of Youth, he glimpses the dream of man's quest: manhood is to recover the fragments of the soul and find a refinement to restore the intellect to full power. The high resolution graphics and subtle animation soon history out the set

1000

The shade of our hero has no need of food or drink, but as well as the problems of finding the object of the quest he has to deal with many independently assessed and uncalculated concerns, such as the price inside-fishes who seek to thwart you at every turn. Although water characters, such as the

The game and its variety are so vast that many hours are needed just for a preliminary exploration and mapping to a real homelike but, as you find new paths, wars and storms, the sense of discovery and achievement is very satisfying.

The background in the accompanying booklet and postcard map of Tin Tin Hong are a package which is excellent value for money and which will provide many many hours of enjoyable time.

As a footnote, the signal to TBS' Don Dardo is nearly complete and hopefully will be released on Commodore and Spectrum at the same time.

Finally, as Barbara Conway is taking some of these pages for now, I would be very pleased to hear from any of you with solving any problems, comments and suggestions as to what you would like to see on this page. So get pen to paper and let us hear from you! ■



Creative

Playalongacommodore

... or how to turn your Commodore into a video jukebox courtesy of Music Sales

THE LATEST additions to the Music Sales range of products distributed by Commodore, are the software equivalent of a "jukebox" — the Playalong albums. Aided the musical beginners the three packages: Popular Classics, Pop Hits and Beatles, come on cassette or disk at £9.95.

The package we looked at was Popular Classics, by each of the "albums" follows the same format. They can be used purely for entertainment to play already programmed versions of well known tunes, or they can be teaching aids which will play an accompaniment for which you can learn the melody.

The package contains the software manual and a music booklet which contains simple versions of the music on the album. In the case of the Popular Classics package, these include favourites such as *Mail of the Mountain King*, *The Farmer's Song* and *Dance of the Reed Pipes*.

On loading the software, you have the choice of twelve tunes, each of which has two versions, the full version of the simplified one printed in the music book. You can also select various options such as Single Key Play, Rhythmic Mode or Performance Mode. In Single Key mode any key you press will play one note of the melody line and advance the accompaniment. This feature allows you to learn timing from the music book.

Rhythmic mode plays the accompani-



ment strongly and displays the notes on the melody for you to add. You can use the Music Maker chip on keyboard to play notes or just press the appropriate keys.

Performance mode lets you play the melody, but the accompaniment won't wait for you to catch up!

If you wish the music can be accompanied by graphics showing which note is playing, or the current pitch.

Composr of Jukebox mode allows you to

store tunes together. You can hear the music to other instruments and vary the tempo as you require, but perhaps most interestingly you can connect up a MIDI equipped synthesiser to play the music (note you'll be directed to a suitable MIDI interface such as that by Jelfingham coming soon).

In Once mode, all three musical tracks are sent out on one MIDI channel, so your MIDI synth will play all three tracks on the same voice. In Poly mode the three tracks are transmitted on three different MIDI channels so you can connect up three MIDI synths to play the three tracks in different voices. Lastly, the most powerful mode Music allows you keyboards such as the Sequential Seblon, Oberheim Expander and other Commodore play the three tracks in different voices simultaneously.

The Playalong Albums are recommended for all except the teenagers of not being able to read your own music, but the forthcoming Polybooks, Sample and Pattern packages are all compatible with the system, and will expand on previous editions.

Product: Playalong Albums
Manufacturer: CBM 64
Supplier: Commodore
Price: £9.95



Every good boy

... deserves fun. Chalksoft makes it a child's play to learn music

NOTE INVADERS is a simple and useful music teaching program from the educational software house Chalksoft. It is ideal for younger musicians as it helps to teach the notes as they appear on the musical staff and also the relationship of short notes up — given which should induce the interest of children's learners.



At £9.95 for the Commodore 64 and £12.95 for disk. Note Invaders includes three programs. The first Invaders allows you to select a note or five notes, then

press up a note which moves from left to right. You decide when notes are to, and press the appropriate key. A to G. If you choose correctly your character will advance the note. You are then awarded a score depending on how long you last progressed. If you choose the wrong note you lose a life.

The second program Staff 1 demonstrates the notes on the staff, and has clearly and past questions to you which have to be answered within a time limit. The graphic demonstration are accompanied by appropriate sound sounds.

The third part of the program Staff 2 provides a list of twenty questions, and if you make any mistakes in answering them first, which can't reach the right notes is displayed on a monitor.

Staff 1 and Staff 2 have options for feedback so that individuals or classes can exit the program. Notes can be kept and recalled at any time.



Note Invaders is a simple and useful music teaching program from the educational software house Chalksoft. It is ideal for younger musicians as it helps to teach the notes as they appear on the musical staff and also the relationship of short notes up — given which should induce the interest of children's learners.

Program: Note Invaders, 64
Supplier: Chalksoft, PO Box 49, Spalding, Lincs. Lincolnshire, PE11 1NS
Price: £9.95 tape, £12.95 disk



A change of character

Fed up with the 64's boring old character set? Now you can use sixteen new sets and define your own using Font 64 from Basic Software

WHEN WRITING your own Basic programs, there's nothing more frustrating than being limited to the 64's standard character set. It's not very interesting to look at and, thanks to the power of your programs, an unsuitable look which most commercial software avoids by using specially defined characters.

Looking at recent releases, programs like Microsoft's *Lotus 1-2-3* and *Aligner's Hypercard* are excellent examples of programs enhanced with special character sets. Now you can achieve visually professional results with a package from Basic Software: *Font 64*.

The package, supplied on cassette, contains 16 alternative character sets, or fonts, plus the option to design and store your own sets.

So how does it work? The set contains two character fonts, one for upper case and graphics and one for lower case and graphics, and any of these can be used in reverse. *Font 64* allows you to create your own alternative to font one, but you lose the ability to use font two in the process. After selecting the new font you can decide if you want whether to use the normal or new character sets.

The alternative font takes up 1K of

memory starting at 2048, and can be called up into a program using a simple POKE. The program on loading shows the location of lines to make way for the new sets, thus protecting you with a little. Also, on your



new screen font, and the *Upper case*, and two fonts display a list of the fonts available which include *Wide Latin*, *Thick-Thin Greek*, *Scientific*, *Armed* and so on in upper or lower case. After choosing the set you want to work on, the

font character set is displayed and a grid with an enlargement of one of the characters is posted up. You can then use the cursor keys to redraw any of the characters before sending the set back into memory.

The *Select Font* option allows you to choose four character sets for your program, and, noting the pole numbers associated with each, reverse or rotate them before saving them.

After saving the program you can call the new character sets into your own program at any time by using POKE 51253, 0, and using shift and reverse to select one of the four saved fonts.

If you wish to save a program including the new fonts, you must go through a short save routine which makes sure the fonts are included in the save, and on re-running the program you must POKE 64, 0, before you.

Font 64 can be saved to disk, but isn't sophisticated enough to allow you to perform point-size of the new character sets.

Font 64 costs £1.00 from Basic Software, 4 Chapel Villa, Dalrymple Bay, Dundee DD6 6PL, 0883 82564.

Turning on to Video

Adamant's Videobasic adds graphics and sound commands to make the creative 64 programmer's life that much easier

CREATIVE users of the 64 often lament a lack of commands for graphics and sound. One solution is to buy a third-party package which restores the creativity for many Commodore POKEs. The latest on the market, *Videobasic* from Adamant



(distributed by Adamant) is designed to make your sound and graphics a less daunting proposition.

Videobasic uses fully sound commands demonstrated in a short introductory routine. Graphics commands include HRES to set the screen, MLI TT for a

multicolour screen, X and Y for plotting points. DWRITE is design a screen to a point including the MPS 800, DRAW, BOX, CIRCLE, BLOCK, FILL, and so on which are fairly self-explanatory.

There are several commands for sprite, 4-levels processing, collision, draw, line and refreshing and LTRAP type graphics commands including TCOLOR to set colour, TDSW/TUP to rotate and deactivate the 'pen', and movement and positioning commands.

Several functions are particularly useful for games — IDV and PYDLE return values from the controller ports and PEN reads X, Y co-ordinates from a joystick.

The sound commands allow you to control most of the SID chip's parameters including voice waveform, ADSR, volume, pulse width, filter and effects. Tunes can be programmed in real at the same time as your *Videobasic* programs.

Other functions include screen save, memory management, status reports, STOP, double and more. It can become

very complex though most computer fans, programmers will have got the hang of *Videobasic* with the help of the tutorial programs on the disk.

Videobasic's great merit is that it isn't portable for standing copies. The main



but unlike packages such as *Demot's Basic*, it contains programs which can be run by 64 owners who don't have the package. ■

For more details contact Adamant at 88 Mary St, Ashton, Rochdale, Lancs., M16 5DA 081.



Bessey means business

Commodore's new general manager, Nick Bessey, hopes to conquer both the home and business micro markets. We reveal his ambitious plans

"I EXPECT to be offering the 64 at its present price right up to the end of 1986. The price actions we have seen earlier this year are not supported by us. We expect the product to re-establish itself".

So says Nick Bessey, Commodore UK's new general manager, and the man who more than anyone else, will be responsible for re-establishing Commodore's development in this crucial stage of the UK market.

Nick Bessey, 46, is the youngest general manager in Commodore worldwide. His experience and reputation spring from twelve years at International Business Machines — IBM, or "Big Blue" — though this doesn't mean that Commodore will be neglecting the home computer market in favour of the new PC compatible machines and the forthcoming Amiga and Unix ranges.

Marketing

Whether field Commodore sales, though, it's clear that marketing is the task in which they will rather focus on first. The quality of the machines has never been a question, poor backing and inadequate understanding of the market has led to the relative failure of the C16 and Plus/4, and the career difficulties of the 64.

As the key message behind IBM's retail marketing drive, dealing with the "low cost" products such as the PC, Nick Bessey

is clearly intent to sort out these problems. His experience as a top salesman and a planning manager in the Canadian, Japanese and Australian markets for IBM, gives him an understanding of the requirements of the international market as well as a good technical grounding — which could not be said for Bessey's predecessor, retired David Howard Stannish.

So what are Nick Bessey's plans to reverse the flagging Commodore image, in the face of competition from Atari (now helmed by IBM founder Jack Tramiel)? The price of the 64 is not in question, despite the decrease by Lady 1 and Beeb's to discount standing in at the present price. Selling at £129, in order to compete with the £149 Plus/4, would not make money on the 64 at Commodore's dealer prices. Bessey promises to deliver his plans for constant price, and justify the price. "A strong argument is what the thing costs us to make the price is what we can afford. The 64 has excellent hardware, more software than any other machine on the market, and there's a high level of peripherals. I hope to see the head offices of our 40,000 outlets — they have got to love the story. The High

Street dealers are absolutely right to have gone with our marketing people this year. They're very powerful in terms of sales for us here, but Beeb's and Lady 1 together represented less than 7% of our volume sales last year. Discounting is very dangerous — it reflects a lack of confidence, and it doesn't move product. It is not the people who resented us at all, it is regretting it".

Inventory

Bessey plans to lower the 64's market profile by including bundled software in the price. But what of the C16 and the Plus/4? "The C16 is an excellent product, but sales are not as high as we hoped. The truth is that the retail price is not what is determining, but discounting has not resulted in any significant product improvement". On the Plus/4, Bessey is less optimistic, although he pledges software support from Commodore. He admits that the bundle software is poor, but suggests that there are possibilities for selling the machine with different retail software or in combination with peripherals. Fortunately — from Commodore's point of view presumably, rather than from that of Plus/4 owners — "summary is very modest".

What of the 64, the C64's successor, which offers the magic element of software compatibility? "It will definitely be available in June. The price will obviously be

Spreading the word

Two top-of-the-line word processors — *Superscript* and *Vizaview* — tested and compared by
Trevor Doherty

COMING SOON 64 owners have the widest choice of word processors for use on home machines. Choosing the right one to run your words for home or small business use is important, as it is probably going to be your only data-based piece of business software.

Because a page of text can be much wider than the screen — especially 80 characters wide — any full word processor must find a way of displaying and editing text on the narrower 80 columns screen and then allowing it to be printed out on wider paper. The two top-of-the-line word processors in use today are *Superscript 64* (Type 100 01 disk) and *Vizaview 64* (Type 100 01 disk). Both do the same different methods. Both products include a spelling checker. *Vizaview* is also available without the spelling — on disk or cartridge.

Updated

Superscript is a newly updated and expanded version of *Enscript*, which many people use because it came first with about disk drive. If you are familiar with *Enscript* you will find it quite easy to get on with *Superscript*, although it was being compiled just as the changes in FIRST Process have an upgrade scheme for using *Enscript* on it.

Superscript retains *Enscript*'s good formatting (up to 128 rows and 140 columns). Text is entered within the 80 columns of the screen and commands added to format the document when pressed. You can go view the whole document on the screen and printed format by scrolling the screen sideways. The big difference compared with *Enscript* is that *Superscript* wordlength is down a split word at

the end of a line, making editing and moving the document on the screen easier. *Superscript* comes with an extensive manual, the first version being a manual. An index listing, created in included *Index* will take you through the basic skills.

Scrolling

The basic control key for *Superscript* is F7 which places a cursor across the top of the screen. Moving through the choices gives shows a brief description, underlines highlights the right one, but returns and the command is carried out although some choices have further sub-menus. At first this is the easy way you get familiar with the options quickly but once you become experienced *Superscript* allows you two faster ways of moving commands.

Firstly you can use command controls then to enter a word — press F1 F2 F3. For a number of commands there is a second way again to enter a word — press F1 F2 F3. Control sequences which would be familiar to anyone who has used *Horizon* on a business machine. I found myself using a combination of all three methods. Just about every feature I have mentioned in a word processor is included in *Superscript* words and replace, block move, including paragraphs, graphics, tables, calculations, merging, highlighting (the ability to build up letters from standard paragraphs saved on disk) etc. etc. It is hard to imagine anyone ever using all the features. A few range of printers are supported using printer definition files. You define the printer type, screen colours, paper size and to use it is definitely the which loaded at start-up.

Advanced users will appreciate the ability

to add commands by defining your own using keyboard macros assigned to a single key. These can be set up to be permanent stored in the cartridge file. Using these you can type a lengthy command sequence or even use like your name or address with a single keystroke. The spelling checker contains a 30,000 word dictionary and compared in *Vizaview* is much easier and quick on use.

To spell check your document, *Superscript* first displays a message of how many words unique words, sentences and paragraphs there are. You can then list the words alphabetically or in frequency order if you wish, then go on and correct spelling mistakes which *Superscript* highlights. If you export the dictionary on to your word disk all of this is accomplished without a single disk change. Words can be added to a new dictionary during the correction process.

Superscript is certainly the most complete business word processor available for the 64. It is well documented, well used *Enscript* files and text with *Superscript*, you can go into it quickly, but very few will plumb its considerable depths. If you need a sophisticated and powerful word processor for the 64 this is the ultimate.

Performance

Vizaview is a very interesting word processor where you key the document out on the screen more or less as you expect to see it printed out. If you are already a typist, this is a very natural way of working, as a way to find the answers are — I prefer to get the words down out of my head quickly and worry about the formatting afterwards.



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[illegible]

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Only studies that: (a) used a large sample of respondents; (b) used a validated measure of the dependent variable; and (c) used a validated measure of the independent variable were included in the meta-analysis.

[illegible]

Traditionally, and in many other ways, women have been and still are less visible in the public sphere.

Ngày 10 tháng 1 năm 1975, tại Thủ Đức, TP. Hồ Chí Minh

Osteoporosis prevalence by age group — **U.S. women**

Please write all queries for this column to: ask@asktheexpert.com

2.2. *Business Model* 22

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INTRODUCTION

BATTERSBY IN HIS
SEXUAL FANTASIES
AND ADVENTURES
IN HIS DESIRE TO
ACHIEVE THE ULTIMATE
SENSATIONS

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

WOLFE is a 22-year-old towering machine, almost 6 feet, 100 pounds, the voice a hoarse growl. The large, A-listed actor is taking the first Lady of Shalott. What is new is his first feature film, the studio's first production, his first role and his first kiss on film. In your first scene, the young parents are getting off to a slow but steady start. You're a child in

1000

Figure 1

HELPFUL HINT

[illegible]

222

1000 1000 1000

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1990

[illegible]


```

100 PRINTM
110 PRINTM LEFT TO RIGHT 10,1000,10000
120 INPUT LR IF LR=1 OF LR LEFT=RIGHT
130 PRINTM UP + DOWN POSITION 1 AND 10
140 INPUT UD IF UD=1 OF UD 200 THEN140
150 PRINTM SHAPES WIDTH 1-200 10
160 INPUT SH IF SH=1 OF SH LEFT=RIGHT
170 PRINTM SHAPES HEIGHT 1-200 10
180 INPUT SH IF SH=1 OF SH LEFT=RIGHT
190 PRINTM SHAPES SHAPE 0-10 10
200 INPUT SH IF SH=1 OF SH LEFT=RIGHT
210 PRINTM SHAPE MOVEMENT 0-10 10
220 INPUT SM IF SM=1 OF SM LEFT=RIGHT
230 PRINTM SHAPE TIME PERIOD 0-1000 10
240 INPUT TM IF TM=1 OF TM LEFT=RIGHT
250 GRAPHIC 1,1 COLOR 4,1
260 SOUND 1,500 10
270 UNDO10000 10
280 FOR A=0 TO 10
290 CIRCLE 1,LP UD,SH,SH,SH,SH
300 SH=SH+2 SH=SH+2
310 NEXT A
320 UNDO10000 10
330 FOR A=0 TO 10
340 BOX 1,LP UD,SH,SH,SH,SH
350 SH=SH+2
360 UNDO10000 10
370 NEXT A
380 UNDO10000 10

```

Loader

I WROTE this Loader for use with the utility for the 64

THIS MACHINE code routine will **LOAD** the program it is part of, then load and run a new one. This is useful when you have a split program due to lack of memory space. You can use it as part of a security routine to load the part of a program requiring a password, then load the next routine only

when the password is correct.

LOADER can be used to load any program either as the starting or the end but you should only use it to load a new one to load the next part. The program over the keyboard buffer 1631-6400 to NEW the old program and 1631-6400 the new

```

1 REM BEHRE! THIS PROGRAM HELPS ITSELF
2 REM SO HAVE IT BEFORE RUNNING
3 REM BY I.WOODLEY
4 FOR I=49152 TO 49240:FOR J=5+H:PRINT A:NEXT
5 IF J=11659 THEN PRINT "VALUE OF DATA ERROR" END
6 DATA 60,220,160,70,32,210,255,160,60,210,255
7 DATA 60,80,70,210,255,160,17,32,210,255,160,17,32,210,255
8 DATA 60,70,32,210,255,160,70,32,210,255,160,60,32,210,255
9 DATA 60,60,32,210,255,160,19,32,210,255
10 DATA 60,13,141,119,2,160,13,141,120,2,160,80,141,121,2,160,60,141,122,2
11 DATA 60,70,141,123,2,160,13,141,124,2,160,6,141,198,0,36
12 SYS49152 REM USE TO LOAD NEXT PROGRAM

```

Send us your Commodore programs, including a cassette — and a printout on plain white paper if possible. Each listing must be accompanied by a typescript of an introduction describing the program and explaining how it is constructed. We pay \$4.00 for each listing first published. We cannot guarantee to return every program submitted, so please keep a copy. If you want us to return your list by post must include a stamped, addressed envelope. If you have any problems with the programs please write to the appropriate author, Software File,

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**MOVEMEAD DISCOUNT
SOFTWARE COMPANY**

Rating	Year	Genre	Director	Cast	MPAA	Box Office
A-	1990	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
B+	1991	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
B	1992	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
B-	1993	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
C+	1994	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
C	1995	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
C-	1996	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
D+	1997	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
D	1998	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
D-	1999	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2000	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2001	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2002	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
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F	2017	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2018	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2019	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2020	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2021	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2022	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2023	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2024	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000
F	2025	Comedy	John Dahl	John Cusack, Anthony Quinn	R	\$1,000,000

1. **QUESTION** The following table shows the number of people who attended the 2008 Summer Olympics in Beijing, China, by country. The data is presented in a table with 2 columns: Country and Number of People. The countries listed are the United States, China, Russia, and others. The number of people is given in millions.

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Serious moonlight

Book: *Blacklighting with your personal computer*
Author: *John J. Worman*
Publisher: *Blackfoot Press*
Price: £4.95

Reviewer: *Trevor Oakley*

This book on the subject which illustrates a full set-up with disk drive and printer says "An author's advice on how you can save money". Well, I moonlight with my PC and would say this book is a good guide to the opportunities available. The book isn't machine specific but the set-up is machine as one of the chapters illustrates suitable for various work.

A range of money-saving are covered from saving software in updating, and I found the introduction on the ethics of moonlighting refreshingly candid. Some of the little gems are a few dollars for a night's job but of course.

I wouldn't rely on this book, then, to set you on a financial path but it does provide a useful introduction.

As Tony Wagon would say "Does it give you your day job?"

C16 makes its play

Book: *Commodore 16 Games Book*
Authors: *Cameron Duff and Richard Woodford*
Publisher: *Blackboard House*
Price: £2.95

Reviewer: *Forrest Smith*

Could there be given where C16 and their capabilities don't seem to be much to write about this book.

Coming soon after the launch of the C16 when there's a great demand for games and little software on the market this book claims for a wide variety of games. The program listings vary considerably, there are subprograms, shell scripts, programs and logic exercises. If you hate typing in listings, you'll be glad to hear that some of the routines are just there, they have been taken from *Blackboard House* and made

available at the bottom of all of which are, in some, available on a floppy disk or tape and some files.

The only potential problem with game listings, a few *Blackboard House* included a checking routine in the book which should mean that there were any problems of these kinds.

There are also other features, a space routine, a program control utility and a merge program which will allow you to join two programs together. These will help you to develop your own programs.

Although some of the program explanations are a bit brief and it may take some time for beginners to figure out what they have to do, overall the book is very good, and I would recommend it to any C16 games enthusiast. Well done *Blackboard House* — simply speaking, if this book was to impress you then what will?

Depressed market

Book: *Master Programming on your Commodore*
Author: *Peter Jackson*
Publisher: *Phoenix Publishing*
Price: £7.95

Reviewer: *Trevor Oakley*

This book is aimed at sales and marketing managers who want to run their home computers for their daily work without spending a fortune on software. Learning from the rudiments of BASIC, the book goes through each delight in "graph plots" and "file names" under the busy banner of "Sales Term" — *The Sales Manager's Package*.

The book doesn't actually appear to have been written for Commodore hardware but fairly converted from some other machine — with Mode 4 graphics via 224 normally available for BASIC.

My advice to sales and marketing managers — save your money, time and effort and go out and buy some carefully chosen software packages.

Jack attack

Book: *The Home Computer Wars*
Author: *Michael Townsend*
Publisher: *Math Sciences Computer*
Price: £7.95

Reviewer: *Clifford Parker*

This claims to be "an insider's account of Commodore and Jack Trammell", and maybe so. For anyone macro-maniac this is fascinating — a chapter to chapter smothering of the writings and personalities of Commodore at the time of Jack Trammell and the V6. It traced the chapters on the management and birth of the V6 machine — everything after that was an extension, and I wouldn't be surprised if Townsend told that too.

He traced I found the book less satisfying. Everyone takes the story of how he built Commodore up from a separate parts company into a joint corporation and everyone knows what happens in the real life all original and freely. So instead of Trammell's story from Commodore to Atari opening as a book from

Pay as you learn

Book: *The Commodore 64 Payroll Book*
Author: *Robert Williams*
Publisher: *HAFT*
Price: £19.95 (+ disk or card £5.00)

Reviewer: *Trevor Oakley*

If you want to run the payroll for your business on a Commodore 64 then this book is for you.

What the book contains is program listings for a payroll system details of how it works and a user manual which allows you to put the programs into operation. Details of how to modify the program. For example to set for monthly pay rather than weekly are included.

While the program listings are clear and easy to follow, I would recommend purchasing the disk or cassette rather than typing in over 4000 lines of BASIC. The disk and book together at about £15 are quite a bargain for a complete payroll system.

Practical filing

Book: *File Systems and Databases for the Commodore 64*
Author: *A. P. A. D. J.*
Publisher: *Collier*
Price: £7.95

Reviewer: *Trevor Oakley*

For anyone who wants to write a filing system in BASIC, this is a book to guide you in the right direction.

Generally, I am in favour of books of program listings but this one is not just that, most a helpful number of theory and subroutines which you can use to produce a working system. Some machine code routines are included to speed up writing.

Well worth reading to learn the principles of program databases as well as the practical programming aspects.



the book I spent much of the first third of the book looking for answers for the more.

Townsend, for four years Trammell a partner, wrote in a friendly yet American sub-junctive and doesn't manage to come out as a likeable character. He pounds the 'business in war' metaphor at every opportunity, and overall it's not the kind of book which would have much to offer to the general reader, only to those who are determined to find out more about 'the inside struggle' inside Commodore and between the company and such rivals like Texas Instruments and Atari.

Honeyed words



Cheetah's speech synthesizer is a no-frills unit at a budget price. Nathan Grossenwiler assesses its chances and finds that the Sweet Talker has plenty to say for itself

AFTER OVER round up of speech synthesizers in the April issue, most of you should be pretty clear on what these digital synthesizers can do and how they work. The Cheetah Sweet Talker doesn't hold any surprises in this field, but it is surprisingly cheap.

Cheetah's basic cost money in the kit hardware, and it comes in the same case as the EMT and all other speech interfaces. It is a card-edge design which plugs into the back of the kit, with a flat phone cord the speaker's cord goes to this side, speech can go to either end of your TV or monitor speaker.

The Sweet Talker's speech sounds very much like that of other similar systems — not very realistic, since there is no inflection possible. However, the garbling should most speech systems make here, a chance all of these ones, so there are no complaints on that score.

Like most other systems the Sweet Talker operates on a system of allophones. A vowel generated by the SID chip is put through a filter, and the filter modulated to

produce any of the only 40 or so basic parts of English speech. These allophones can be combined through your programs into any word you choose — certainly a primitive method on having a fixed vocabulary through orthographic letters.

Unfortunately the Sweet Talker isn't very user friendly. For a start, the driving software isn't on ROM — you have to type it in or load it from the cassette provided. Secondly, the Sweet Talker doesn't have any form of compression routine, so you can't just type in English words, or even letters; you have to type in strings of numbers.

The manual gives the codes for each allophone and explains how to write Basic programs. For instance, to get the Sweet Talker to say "Cheetah" you would use 00 DATA 30 06.0 15 15 0 . . . These are the codes for the allophones CH, V, TT, A, A, pause, and it's a real pain to have to look up the code for each allophone, and certainly emphasizes the vast limitations of most systems like the Cheetah, Sweet

Talker Speech 64, which has a language interpreter in ROM and can make a word in any word you can fit into it.

The Sweet Talker comes with a demo via the Basic of the tape, which gets under them so to have the user's speech can be incorporated into your own Basic programs. However, there is no mention of using machine code.

The Sweet Talker doesn't appear to have any more features than the absolute basic — there aren't any plans for commercial software exploiting the device, so you may find it a bit of a dead end in that respect. However, if you just want to find out what speech systems are all about, and don't demand all the frills, the Sweet Talker may have something to say for itself. ■

Product: Cheetah Sweet Talker
Vendor: CEM 84
Supplier: Cheetah Marketing, 24 King Street, London E15 6J 04 573 9929
Price: £74.95



Now you can use your Commodore 64 to write a letter or a report, to compile a mailing list or classify your record collection, to check your bank statement or sort out your family finances (and then translate them into colourful graphics) . . . all for just £5.95.

Quick to learn, easy to use, that's...

Mini Office marks a long-awaited breakthrough in dramatically reducing the cost of personal computing.

For the first time it makes available to everyone an easy-to-operate version of four of the most popular business computing applications – and it represents an affordable.

Never before has a word processor been sold for anything as low as £5.95. Nor a database manager, nor a spreadsheet, nor a graphics program.

But Mini Office contains them all.

So how was it done?

It all started with a suggestion that we should prepare a package to give residents a gentle introduction to the kind of software that businesses were moving on their computers.

At that stage there was no intention that it should be an emulations package. Just a simple program that could be sold at a very low price.

We called in experts in

processing database management applications and graphics had been turned into a full scale set of programs covering all four applications.

In fact the only part of the brief that remained was our original intention that the package should be quick to learn and easy to use.

Mini adapted all the extra sophistication that has been written into it and decided that as a service to our readers the price should still be kept at the very low figure originally fixed.

Now, does Mini Office qualify?

Using the **Word Processor** is simplicity itself. There are none of the cryptic coded instructions that had to be mastered by people learning the early word processors.

You start by selecting the sort of type you prefer – either normal or double size. The latter is a feature that you

people this could be the first time they can send out a perfectly typed letter without outside help.

For any school teachers are also expected to make good

it again. It can also be printed out.

The **Database** program can be used to store a mass of information. It can be retrieved in its entirety or just



Figure on the spreadsheet can produce a bar chart.

use of the double size function (both on the screen and in hard copy printouts).

While you are using the word processor, those useful pieces of information are displayed across the top of the screen.

They tell you how much time has elapsed since you started using it, the number of words you have written so far, and how many corrections you can fix in before the computer's memory is full.

At any time you can pause a line which tells you your typing speed. This is a most useful function and can play an important part in increasing your efficiency at the keyboard.

You can also decide the size of the margin, the line length and the tab positions. Text can be moved from one part of the document to another.

At any time you can preview the text to see how it would look when printed out.

As with all the other programs in Mini Office, your work can easily be saved and loaded when you want to use

the parts you require for a particular purpose whenever you need it.

The operation is so simple that a useful database can be created in minutes rather than days – and you certainly don't need any computer experience to set it up.

The powerful search facility is very easy to use. You can search for a particular word or words or you can order a numeric search – both by telling the computer to find all the numbers greater or less than the one you provide.

You can carry out multiple sorts. For instance, if you have built up a mailing list containing a lot of names, addresses, telephone numbers, occupations and ages you can ask the database to provide you with a list of teachers living in Liverpool whose ages range from 25 to 50.

One powerful option allows you to release everything on the database without having to go through the whole lot making amendments, queries! You could be explained instead if

A unique feature is the double size text option in both printer and edit mode – perfect for young children and people with poor vision.

The word processor – with double size characters

business software programming, told them what we wanted and set back to work.

What happened next was totally unexpected. For they all came back with letters that were considerably longer and original brief.

In the end what had been planned as little more than a beginners guide to word

cannot find on any other word processor.

It is particularly suitable for the partially sighted – in many cases giving them their very first opportunity to use a word processor.

This means they can use a memo to compose a letter using the double-size mode and then print it out using normal size type. For many



INTRODUCTION

is used each reference to
another and repeated with
lecturer

The Department is currently reviewing the program that provided a college course credit for students who completed a course in the Department of Health, Education and the Environment.

It is often pointed out that this anti-program alone has helped to sell more personal computers than any other.

Certainly Viscusi and his colleagues have never been shaken from these positions at the top of the list of best-selling business magazines.

But the concept is very simple — a giant worksheet of rows and columns, only part of which can be seen on your screen at any one time. Into any position on the sheet you can put numbers, labels and mathematical formulas.

And before you allow any figure to effect ripple through the rest of the sheet, changing any totals as may be necessary.

The third Office version is called the **Source Statement**, which

ing you with an effortless
style of keeping tabs on your
income and expenditures – and
enabling you to work out your
own budget.

In our Specialized programs — as well as in the Institutes — we have provided

[illegible]

an example like so that you can
experiment with it before
making your own class.

One feature we have included which we are proud to say does not exist in any other spreadsheet is a warning device to prevent you

accidentally missing formulae —
a very useful construction

This Graphical program uses the standard business graphics — bar, line and pie charts — in full screen. What is something not always available on the more expensive graphical machines.

The program uses data you have already prepared on the spreadsheet. You have to identify which set of information you choose to use in graph form — such as by choosing which row of columns — and then which of the graphs you choose.

The graph is then automatically reconfigured as the report is if you have a suitable printer capable of

conducting graphics you can
also print out final reports that
are printed on demand.

Business our original idea for was to produce a package for people new to all three applications and having produced a fully-detailed copy of the user manual, however,

This 22 page free booklet gives clear instructions about how to use all four programs and in special forms a concise introduction for first time users.

If you want to start doing more with your mind than just playing games, this page is for you! Start introducing to the four most popular techniques for professional athletes here.

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